

# SAYAN KUNDU

Kolkata, West Bengal, India

sayanswt@gmail.com | +91 79805 55637

LinkedIn: linkedin.com/in/sayan-kundu-046125159

## PROFESSIONAL SUMMARY

Emerging AI and Data Science professional with a strong foundation in embedded systems, Python/C++ development, and hands-on experience in STEM-based education and IoT projects. Proven ability to lead innovation programs, mentor students, and create impactful project-based learning. Currently preparing to advance capabilities through an M.Tech in Artificial Intelligence & Data Science at premier Indian institutions.

## CORE COMPETENCIES

- Python & C++ Programming
- Embedded Systems & Arduino
- Sensor Integration & IoT Prototyping
- OpenCV & Basic Computer Vision
- Innovation Workshops & Technical Mentorship
- STEM Curriculum Development aligned with NEP 2020

## PROFESSIONAL EXPERIENCE

STEM Innovation Engineer

Stemrobo Technologies, Noida | Jul 2024 - Jun 2025

- Delivered AI and robotics workshops using platforms like STEMbot and Bitli.
- Facilitated hands-on sessions on image detection, pose estimation, and mask detection using OpenCV.
- Designed Arduino-based projects involving IR sensors, voltage regulators, servo motors, and breadboards.
- Mentored students in Atal Tinkering Labs (ATLs) on innovation and critical thinking projects.
- Created technical content tailored to the NEP 2020 and ATL innovation curriculum.

## EDUCATION

M.Tech in Artificial Intelligence & Data Science (Pursuing)

IIIT Ranchi & IIT Patna (Joint Program) | Jul 2025 - Jul 2027

B.Tech in Electrical Engineering

Future Institute of Engineering and Management, MAKAUT | 2017

CGPA: 7.97 / 10

## PROJECTS (Embedded Systems & IoT)

Automatic Street Light Control System - LPC1768

- Built a light-sensitive street lighting system using microcontrollers and LDR sensors.

Wireless Power Transmission using Tesla Coil

- Demonstrated energy transfer using Tesla coil with HV transformers and driver circuits.

## CERTIFICATIONS & TRAINING

- PG Diploma - Embedded Systems Design & Development

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Indian Institute of Embedded Systems, Bangalore

- Vocational Training - Power Grid Corporation of India Ltd, Subhashgram Substation | Jan 2016

## TECHNICAL SKILLS

- Languages: Python, C, C++
- Tools & Frameworks: Arduino IDE, OpenCV
- Hardware: IR Sensors, Breadboards, Voltage Regulators, Servo Motors
- Domains: Embedded Systems, IoT, Automation, Robotics
- Other: Student Mentorship, Workshop Design, Innovation Training

## ACHIEVEMENTS

- Led STEM and innovation sessions across multiple ATL schools.
- Winner - 1st Prize, Drawing Competition, ISHIKA Art Centre.

## ADDITIONAL INFORMATION

- Languages: English, Hindi, Bengali
- Date of Birth: 9 March 1996
- Marital Status: Unmarried
- Nationality: Indian